Syllabus

James Clemens High School 11306 County Line Road Madison, AL 35756 Mr. Chase Evans tcevans@madisoncity.k12.al.us 256-216-5313 ext. 95144

- *I. Course Description:* Honors Calculus A is a beginning calculus course for those students who have completed Precalculus. This course is an in-depth study of elementary functions, limits, and differential calculus. Some topics of integration are also introduced. This course is required for AP Calculus AB and AP Calculus BC.
- *II.* **Course Objectives:** This course provides an introduction to differential and integral calculus. The primary aims of the course are to help students develop new problem solving and critical reasoning skills and to prepare them for further study in mathematics, the physical sciences, or engineering. By the end of the course, students should acquire skills needed to
 - compute limits by graphical, numerical, and analytical methods;
 - mechanically calculate derivatives of algebraic and trigonometric functions and combinations of functions;

Teacher:

Email:

Phone:

- use derivatives to sketch graphs and solve applied problems; and
- evaluate definite and indefinite integrals.

In addition to the specific skill-oriented objectives above, students should

- have a better overall conceptual understanding of functions and their graphical, numerical, analytical, and verbal representations;
- understand derivatives as rates of change;
- understand definite integrals as accumulations of a rate of change and as Riemann sums;
- understand the relationship between derivatives and integrals;
- understand the difference between definite and indefinite integrals;
- have improved skills at problem solving and critical thinking: at dissecting a complex problem, determining steps in its solution, finding the solution, and testing whether it is reasonable; and
- be able to provide clear written explanations of the ideas behind key concepts from the course.

Students should also gain an increased appreciation of mathematics as part of the language of science and as a study in itself.

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- III. Classroom Expectations:
- *Be respectful*: Show all others the respect that you would like to be shown.
- *Be prepared*: Bring all of the necessary supplies to class every day.
- *Be positive*: Have a good attitude toward others, the content, and learning.
- *Strive to be your very best*: Don't worry about what others think about you. Do the best that you can do.

Accommodations:

Requests for accommodations for this course or any school event are welcomed from students and parents.

Classroom Management Plan:

- 1. Verbal Reprimand
- 2. Conference with student with parent contact
- 3. Withdrawal of privilege(s) with parent contact
- 4. Other consequences to be reasonable and appropriate by the school administration

Cell Phones:

Cell phones and earbuds/headphones will not be allowed to be used during classroom instruction time. Phones and earbuds/headphones will be put away in a location designated by the teacher and placed in silent mode. In secondary schools, students will have access to their phones and earbuds/headphones outside of classroom instruction time such as between classes and lunch. Failure to follow these procedures will result in a disciplinary referral to the office.

 IV. Grading Policy:
Calculus A is an honors level course. 4-6 exams will be given during each 9-weeks grading period. The exam grades will account for 70% of the 9weeks grade, with the remaining 30% being determined by quiz/assignment grades. The grading scale is as follows: A (90-100); B (80-89); C (70-79); D (65-69); and F (below 65). Make sure your absences are excused! Work can be made up and graded for excused absences only. Each grade taken on a day with an unexcused absence will be recorded as a zero.

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- V. Late Work Policy: Students will be allowed to turn in homework assignments late up until the end of the unit in which the assignment is given (the day of the test for that unit is the last day). Late credit will be awarded instead of full credit if an assignment is turned in late. Study guides will be due the day of the test. The last day a study guide will be accepted is the day after the unit test.
- *VI. Make-up Test* To be arranged by the student on the first day back to class. *Policy:*
- VII.Text and
OtherLarson, Ron and Bruce H. Edwards. Calculus of a Single Variable: AP
Edition, 11th ed. Boston, MA: Cengage Learning, 2018.Required
Reading:Reduired
Reading:

Materials and
Supplies
Needed:Three Ring Binder, Tab Dividers (one for each unit), Notebook Paper,
Graph Paper, Pencil (No Pens), and a Graphing Calculator (see below).Students are strongly encouraged to bring graphing calculators to each

Students are strongly encouraged to bring graphing calculators to each class. Since the AP Calculus exams now require graphing calculators for some questions, this technology has been extensively incorporated into the curriculum. In-class tests will often have a calculator portion and a non-calculator portion. The instructor will be primarily using a TI-84 Plus CE, and therefore will provide assistance with the operation of TI-84 calculators. One other accepted calculator is the TI-Nspire CX CAS. If you do choose to get a TI-Nspire, then please make sure that you purchase the CAS version, not just the CX.

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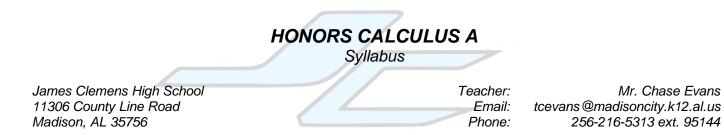
Phone:

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18 – WEEK PLAN

Week 1	Pre-Calculus Review
Week 2	Limits and Continuity
Week 3	Limits and Continuity
Week 4	Derivatives
Week 5	Derivatives
Week 6	Derivatives
Week 7	Applications of Differentiation: $f - f' - f''$ Relationships
Week 8	Applications of Differentiation: $f - f' - f''$ Relationships
Week 9	Applications of Differentiation: $f - f' - f''$ Relationships
Week 10	Applications of Differentiation: Existence Theorems and Optimization
Week 11	Applications of Differentiation: Existence Theorems and Optimization
Week 12	Applications of Differentiation: Implicit Differentiation, Related Rates, and Inverse Derivatives
Week 13	Applications of Differentiation: Implicit Differentiation, Related Rates, and Inverse Derivatives
Week 14	Integration: Integration Techniques
Week 15	Integration: Integration Techniques
Week 16	Integration: Differential Equations, Slope Fields, and Applications
Week 17	Integration: Differential Equations, Slope Fields, and Applications
Week 18	Semester Exam Review and Exam

^{*} The syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions, or substitutions. Adequate notice will be provided to students of any necessary changes.



Dear Parent/Guardian,

I first want to mention that I am excited about working with you and your child this year. I am confident that this is going to be a successful year. Your child has been given digital access to a class syllabus along with this letter. The class syllabus details everything your child will need to know to be successful in my class, specifically classroom policies and procedures. Please read the syllabus with your child, complete the bottom portion of this letter, and have your child return it to my class by the end of the first week of school. The syllabus should answer any initial questions you may have.

Please feel free to contact me at any time. The best way to reach me is by email: tcevans@madisoncity.k12.al.us. You can also reach me by phone at (256) 216-5313 ext. 95144. Once again, I look forward to working with you and your child this year!

Thank you,

Chase Erana

(Cut along this line. Keep top portion. Return bottom portion to Mr. Evans.)

Student Name (Print)	Date	
Parent/Guardian Name (Print)	Date	
Parent/Guardian Signature	Date	
Parent Email Addresses	(work)	
	(home)	
Parent Phone Numbers	(work)(hom	ıe)
	(cell)	